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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number

09/831,047

Filing Date

05/03/2001

First Named Inventor

Magdalena Blaszczyk-Thurin

Group Art Unit

Examiner Name

WST93AUSA

Total Number of Pages in This Submission

9

Attorney Docket Number

## ENCLOSURES (check all that apply)

☐ Fee Transmittal Form☐ Fee Attached☐ Amendment / Reply☐ After Final☐ Affidavits/declaration(s)☐ Extension of Time Request☐ Express Abandonment Request☒ Information Disclosure Statement☐ Certified Copy of Priority Document(s)☐ Response to Missing Parts/  
Incomplete Application☐ Response to Missing Parts  
under 37 CFR 1.52 or 1.53☐ Assignment Papers  
(for an Application)☐ Drawing(s)☐ Licensing-related Papers☐ Petition☐ Petition to Convert to a  
Provisional Application☐ Power of Attorney, Revocation  
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to Group☐ Appeal Communication to Board  
of Appeals and Interferences☐ Appeal Communication to Group  
(Appeal Notice, Brief, Reply Brief)☐ Proprietary Information☐ Status Letter☒ Other Enclosure(s) (please  
identify below)Copies of (35)  
references attached

Remarks

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm  
or  
Individual nameMary E. Bak, Esquire  
Howson and Howson

Signature

Mary E. Bak

Date

Nov 13, 2001

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JC10 REG... 02 JAN 2002

WST93AUSA

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of ) Group Art Unit  
Magdalena Blaszczyk-Thurin et al ) Examiner  
Appln No 09/831,047 )  
Filed: May 3, 2001 )  
For: COMPOSITIONS AND METHODS FOR ) November 13, 2001  
TREATMENT OF CANCER )

Assistant Commissioner for Patents  
Washington, DC 20231

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Applicants submit to the Examiner the attached Form PTO/SB/08A/B document listing and this paper pursuant to 37 CFR §1.56 and § 1.97-1.98. Form PTO/SB/08A/B is attached and copies of the references are enclosed herewith.

According to 37 CFR §1.98(d), Applicants have not enclosed copies of documents (AA) through (AE) as these documents were previously cited in the International Search Report in prior International Application No. PCT/US99/26277, filed November 5, 1999. This application is a 371 of that International patent application. A copy of the International Search Report is attached hereto.

CERTIFICATE UNDER 37 CFR §1.8(a)

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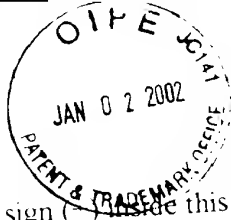
This Information Disclosure Statement is submitted more than three months from the filing date of this application, but prior to receipt of an Office Action on the merits. Therefore, no fees are believed due. However, the Director of the U S Patent and Trademark Office is hereby authorized to charge any deficiency in any fees due with the filing of this paper or credit any overpayment in any fees paid on the filing, or during prosecution of this application to Deposit Account No. 08-3040.

The Examiner is respectfully requested to consider the documents identified in this paper and in the attached Form PTO/SB/08A/B during the course of the examination of this application.

Respectfully submitted,

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Attorneys for the Applicants

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PTO SB 08A (08-00)

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Substitute for Form 1449A PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	09/831,047
				Filing Date	May 3, 2001
				First Named Inventor	Magdalena Blaszczyk-Thurin et al
				Group Art Unit	
				Examiner Name	
Sheet	1	of	6	Attorney Docket Number	WST93AUSA

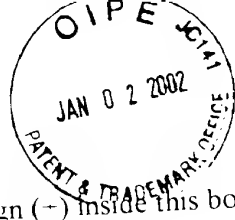
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	AA	5,464,935	B1	G Heavner	11/07/1995	
	AB	5,602,230	B1	G Heavner	02/11/1997	
	AC	5,618,785	B1	G Heavner	04/08/1997	
	AD	5,643,873	B1	R. Barrett	07/01/1997	
	AE	5,861,505	B1	R. Kern	01/19/1999	

AE	5,861,505	DA						
FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



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Sheet	2	of	6	Attorney Docket Number	WST93AUSA

Sheet	2	of	6	
OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiners Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and or country where published		T <sup>2</sup>
	AR	R. RADINSKY et al, "Regulation of Tumor Cell Growth at Organ Specific Metastases", in vivo, 6:325-332 (1992)		
	AS	G. NICOLSON, "Metastatic Tumor Cell Interactions with Endothelium, Basement Membrane and Tissue", Current Opinion in Cell Biology, 1:1009-1019 (1989)		
	AT	M. BEVILACQUA et al, "Endothelial Leukocyte Adhesion Molecule 1: An Inducible Receptor for Neutrophils Related to Complement Regulatory Proteins and Lectins", Science, 243:1160-1165 (March, 1989)		
	AU	P. BRODT, "Adhesion Receptors and Proteolytic Mechanisms in Cancer Invasion and Metastasis", in Cell Adhesion and Invasion in Cancer Metastasis, ed. by P. Brodt, Chapter 11, pp. 167-242 (1996)		
	AV	E. BUTCHER et al, "Lymphocyte Homing and Homeostasis", Science, 272:60-66 (April, 1996)		
	AW	L. LASKY, "Selectin-Carbohydrate Interactions and the Initiation of the Inflammatory Response", Annu. Rev. Biochem., 64:113-139 (1995)		
	AX	A. VARKI, "Selectin Ligands", Proc. Natl. Acad. Sci. USA, 91:7390-7397 (August, 1994)		
	AY	M. BEVILACQUA et al, "Selectins", J. Clin. Invest., 91:379-387 (February, 1993)		
	AZ	G. MANNORI et al, "Differential Colon Cancer Cell Adhesion to E-, P-, and L-selectin: Role of Mucin-type Glycoproteins", Cancer Research, 55:4425-4431 (October, 1995)		

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	AAR	S. KARPATKIN et al, "Role of Platelets in Tumor Cell Metastases", Annals of Internal Medicine, 95:636-641 (November, 1981)		
	AAS	D. WELCH et al, "Tumor-elicited Polymorphonuclear Cells, in Contrast to 'Normal' Circulating Polymorphonuclear Cells, Stimulate Invasive and Metastatic Potentials of Rat Mammary Adenocarcinoma Cells", Proc. Natl. Acad. Sci. USA, 86:5859-5863 (August, 1989)		
	AAT	A. SETH et al, "T-Cell-Receptor-Independent Activation of Cytolytic Activity of Cytotoxic T Lymphocytes Mediated Through CD44 and gp90 <sup>ME1-14</sup> ", Proc. Natl. Acad. Sci. USA, 88:7877-7881 (September, 1991)		
	AAU	F. KOLBINGER et al, "The Carbohydrate-Recognition Domain of E-Selectin is Sufficient for Ligand Binding Under Both Static and Flow Conditions", Biochemistry, 35:6385-6392 (1996)		
	AAV	B. REVELLE et al, "Single Amino Acid Residues in the E- and P-selectin Epidermal Growth Factor Domains can Determine Carbohydrate Binding Specificity", J. Biol. Chem., 271(27):16160-16170 (July, 1996)		
	AAW	S. LI et al, "Consensus Repeat Domains of E-selectin Enhance Ligand Binding", J. Biol. Chem., 269(6):4431-4437 (February, 1994)		
	AAX	D. ERBE et al, "P- and E-Selectin Use Common Sites for Carbohydrate Ligand Recognition and Cell Adhesion", J. Cell Biol., 120(5):1227-1235 (March, 1993)		

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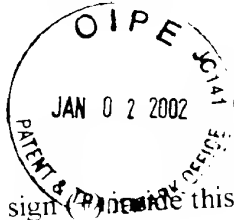
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Sheet	4	of	6	Attorney Docket Number	WST93AUSA

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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	AAV	B. GRAVES et al, "Insight into E-selectin/ligand Interaction from the Crystal Structure and Mutagenesis of the lec/EGF Domains", Nature, 367:532-538 (February, 1994)	
	AAZ	R. GIAVAZZI et al, "Rolling and Adhesion of Human Tumor Cells on Vascular Endothelium under Physiological Flow Conditions", J. Clin. Invest., 92:3038-3044 (December, 1993)	
	BR	E. DEJANA et al, "Endothelial Leukocyte Adhesion Molecule-1-Dependent Adhesion of Colon Carcinoma Cells to Vascular Endothelium is Inhibited by an Antibody to Lewis Fucosylated Type I Carbohydrate Chain", Laboratory Investigation, 66(3):324-330 (1992)	
	BS	A. TAKADA et al, "Contribution of Carbohydrate Antigens Sialyl Lewis A and Sialyl Lewis X to Adhesion of Human Cancer Cells to Vascular Endothelium", Cancer Research, 53:354-361 (January, 1993)	
	BT	R. SAWADA et al, "Differential E-selectin-dependent Adhesion Efficiency in Sublines of a Human Colon Cancer Exhibiting Distinct Metastatic Potentials", J. Biol. Chem., 269(2):1425-1431 (January, 1994)	
	BU	P. BRODT et al, "Liver Endothelial E-Selectin Mediates Carcinoma Cell Adhesion and Promotes Liver Metastasis", Int. J. Cancer, 71:612-619 (1997)	
	BV	G. MANNORI et al, "Inhibition of Colon Carcinoma Cell Lung Colony Formation by a Soluble Form of E-Selectin", American Journal of Pathology, 151(1):233-243 (July, 1997)	

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	BW	L. BIANCONE et al, "Redirection of Tumor Metastasis by Expression of E-Selectin in Vivo", J. Exp. Med., 183:581-587 (February, 1996)	
	BX	K. IWAI et al, "Importance of E-Selectin (ELAM-1) and Sialyl Lewis <sup>a</sup> in the Adhesion of Pancreatic Carcinoma Cells to Activated Endothelium", Int. J. Cancer, 54:972-977 (1993)	
	BY	A. TÖZEREN et al, "E-Selectin-Mediated Dynamic Interactions of Breast- and Colon-Cancer Cells with Endothelial-Cell Monolayers", Int. J. Cancer, 60:426-431 (1995)	
	BZ	M. MIYAKE et al, "Correlation of Expression of H/Le <sup>a</sup> /Le <sup>b</sup> Antigens with Survival in Patients with Carcinoma of the Lung", N. Engl. J. Med., 327:14-18 (July, 1992)	
	BBR	J. GARRIGUES et al, "Anti-Tumor Antibody BR96 Blocks Cell Migration and Binds to a Lysosomal Membrane Glycoprotein on Cell Surface Microspikes and Ruffled Membranes", J. Cell Biol., 125(1):129-142 (April, 1994)	
	BBS	G. KANSAS, "Selectins and Their Ligands: Current Concepts and Controversies", Blood, 88(9):3259-3287 (November, 1996)	
	BBT	D. INGBER et al, "Mechanochemical Switching Between Growth and Differentiation During Fibroblast Growth Factor-Stimulated Angiogenesis in Vitro: Role of Extracellular Matrix", J. Cell. Biol., 109:317-330 (July, 1989)	
	BBU	M. NGUYEN et al, "1-Deoxymannojirimycin Inhibits Capillary Tube Formation in Vitro", J. Biol. Chem., 267(36):26157-26165 (December, 1992)	

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	BBV	J. FOLKMAN, "Clinical Applications of Research on Angiogenesis", N. Engl. J. Med., 333(26):1757-1763 (December, 1995)		
	BBW	M. AGADJANYAN et al, "Peptide Mimicry of Carbohydrate Epitopes on Human Immunodeficiency Virus", Nature Biotechnology, 15:547-551 (June, 1997)		
	BBX	T. TSUKIDA et al, "Studies on Selectin Blockers. 7. Structure-Activity Relationships of Sialyl Lewis X Mimetics Based on Modified Ser-Glu Dipeptides", J. Med. Chem., 41:4279-4287 (1998)		
	BBY	D. ISHIKAWA et al, "GD1a-replica Peptides Functionally Mimic GD1a, an Adhesion Molecule of Metastatic Tumor Cells, and Suppress the Tumor Metastasis", FEBS Letters, 441:20-24 (1998)		

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